

Abdallah Moussa

A dedicated tech explorer on a perpetual journey of innovation, embracing every project as a chance to make a difference.

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EXPERIENCE

Neuss, Irbid, Jordan — *Remote Software Engineer*

October 2022 - November 2023

- Developed a comprehensive time tracking app, incorporating User Authentication and Account Management for employees to record their activity and achievements using Flutter.
- Implemented real-time chatting functionality to facilitate seamless communication among users using Flutter.
- Created backend logic for User Authentication and Account Management using FastAPI.
- Optimized projects through dockerization, enabling remote deployment of machine learning models for enhanced efficiency and accessibility.
- Adapted Tasmota firmware for easy ESP board connections, configuration, data collection from sensors, and efficient data transmission to InfluxDB and Grafana via Telegraf.
- Applied machine learning techniques, primarily with PyTorch, for IoT data analysis, expanding the company's AI-IoT capabilities.
- Fine-tuned the Whisper model using deep learning techniques, resulting in the development of sophisticated dialogue systems catering to various Arabic dialects.

EDUCATION

German University in Cairo

B.Sc. Computer Engineering GPA: 2.49

October 2014 - February 2024. (2016 gap year - personal projects)

Studied Mechatronics initially, then switched to Computer Engineering.

Social Companion Robot - Bachelor Thesis

- **Computer Vision:** Implemented face, emotion, object and color recognition, image captioning.
- **NLP:** Developed a conversational chatbot using PyTorch, integrated with a customized chatbot for versatile user interactions.
- Speech-to-text and Text-to-speech engines.

SKILLS

Programming Languages:
Python, Java, JavaScript, Dart

Frameworks: Django,
FastAPI, Flask, Flutter, MERN
stack

PostgreSQL, MongoDB

RESTful API

AI/ML: CV, NLP, PyTorch

IoT: Tasmota firmware, ESP
boards, InfluxDB, Grafana,
Telegraf

Unity

Docker, Github

Linux

Relative Coursework

Artificial Intelligence

Machine learning

Computer Vision

Deep learning in Computer
Vision

Human Computer Interaction

Business of Software

Computer & Network Security

Languages

Arabic: Native

English: Proficient

German: Beginner